Pure Aqua, Inc.®
Reverse Osmosis & Water Treatment Systems
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Get a Quote
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PENTAIR

FLECK® 7000 SERIES
HIGH FLOW RATE CONTROL VALVE

INNOVATIVE SOLUTION FOR LARGER TANK SIZE AND HIGH FLOW RATE

MADE IN THE USA
OF FOREIGN & DOMESTIC PARTS

FEATURES/BENEFITS

Fiber-reinforced polymer valve body for superior strength and durability, non-corrosive, and UV-resistant

Continuous service flow rate of 28 GPM with a backwash of 7 GPM

Backwash capability accommodates softener tanks up to 24" and filter up to 24" in diameter

Fully adjustable 3- or 5-cycle control for efficient and reliable water treatment system

Super capacitor for keeping time of day during power outage

Environmental protective cover for water resistance, corrosion resistance, and UV stability

Time-tested, hydraulically-balanced piston for service and regeneration

Optical sensor for precision cycle positioning

Soft water refill for a cleaner brine tank

Designed with double backwash for reduce hardness leakage

Diagnostics for historical valve performance

Programming stored in memory and will not be lost due to power outages

OPTIONS

Filter or softener control valves

Brine cam auxiliary switch

Plumbing connections in 3/4" to 1-1/2" NPT, BSP, and sweat

Fiber-reinforced polymer high flow bypass valve

Variable reserve for increased efficiency

Programmable regeneration types for increased flexibility

Manual lever operations

NXT- Network controller uses on-board communication capabilities to link multiple valves (via off-the-shelf CAT3, CAT5, or better cables) for system types 4,5,6,7, and 9

XTR- Offers a two-line, 16 character LCD backlit display for easy entering of master and user programing as well as view of diagnostics

SXT-Large LCD display and user-selectable time clock or metered function; usable for filtration and softener systems

TESTED and CERTIFIED by the WQA to NSF/ANSI Standard 44 for Water Softener Performance.

TESTED and CERTIFIED by the WQA to NSF/ANSI Standard 372 for Lead Free Compliance.

UL recognized to 979

Restriction of Hazardous Substance Compliant

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VALVE SPECIFICATIONS

Valve Material	Fiber-reinforced polymer
Inlet/Outlet	3/4", 1", 1-1/4", or 1-1/2" NPT/BSP/Sweat
Cycles	Up to 6

FLOW RATES (50 PSI INLET) – VALVE ALONE

Continuous	
15 psi drop	
Standard Piston:	28 GPM (6.4 m^3/h)
High Flow Piston:	36 GPM (8.2 m^3/h)
Filter Piston:	37 GPM (8.4 m^3/h)
Peak	
25 psi drop	
Standard Piston:	36 GPM (8.2 m^3/h)
High Flow Piston:	46 GPM (10.4 m^3/h)
Filter Piston:	47 GPM (10.7 m^3/h)
Cv	
flow at 1 psi drop	
Standard Piston:	7.1
High Flow Piston:	9.2
Filter Piston:	9.5
Max. Backwash	
25 psi drop	
Standard Piston:	7 GPM (1.6 m^3/h)
High Flow Piston:	16 GPM (3.6 m^3/h)
Filter Piston:	31 GPM (7 m^3/h)

REGENERATION

Downflow/Upflow	Downflow only
Adjustable Cycles	Yes
Time Available	
SXT:	0 - 199 min/cycle
NXT:	0 - 240 min/cycle
XTR:	0 - 240 min/cycle

METER INFORMATION

Meter Accuracy	
1-1/4" Turbine:	2 - 40 GPM +5/-8% (0.45 - 9 m^3/h)
Meter Capacity Range	
SXT:	1 - 999,900 gal (0 - 3,785 m^3)
NXT:	1 - 9,900,000 gal (0 - 37,476 m^3)
XTR:	1 - 9,900,000 gal (0 - 37,476 m^3)

DIMENSIONS

Distributor Pilot	1.05" O.D. (26.7 mm)
Drain Line	3/4" or 1" NPTM
Brine Valve	
1600:	3/8" or 1/2"
Injector System	1610
Mounting Base	2.5"– 8 NPSM
Height from Top of Tank	9" (228 mm)
Riser Tube Diameter	3/4" (19 mm)
Riser Height	1/4" Below top of tank

TYPICAL APPLICATIONS

Water Softener	8 - 24" diameter
Filter	8 - 24" diameter based on 10 GPM/ft^2

ADDITIONAL INFORMATION

Electrical Rating	24VAC 50/60 Hz
Max VA	15
Estimated Shipping Weight	
Time Clock/ Metered Valve:	11 lbs
Pressure	
Hydrostatic:	300 psi (20 bar)
Working:	20 - 125 psi (1.4 - 8.5 bar)
Temperature	
Cold Water Valve:	34 - 110°F (1 - 43°C)

PENTAIR